

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-724
Relating to Certification of New Motor Vehicles

GENERAL MOTORS CORPORATION

Pursuant to the authority vested in the Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapter 2; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-45-9;

IT IS ORDERED AND RESOLVED: That 1996 model-year General Motors Corporation exhaust emission control systems are certified as described below for medium-duty vehicles:

Fuel Type: Gasoline

Engine Family: TGM5.0HPG1EK Displacement: 5.0 Liters (305 Cubic Inches)

Exhaust Emission Control Systems and Special Features:

Exhaust Gas Recirculation
Three Way Catalytic Converter
Dual Heated Oxygen Sensors
Heated Oxygen Sensors (Two)
Sequential Multiport Fuel Injection

Vehicle models, transmissions, engine codes and evaporative emission control families are listed on attachments.

The certification exhaust emission standards for this engine family in grams per mile are:

<u>Test Weight</u> <u>(lbs.)</u>	<u>Miles</u>	<u>Non-Methane</u> <u>Hydrocarbons</u>	<u>Carbon</u> <u>Monoxide</u>	<u>Nitrogen</u> <u>Oxides</u>	<u>Carbon</u> <u>Monoxide (20°F)</u>
3751-5750	50,000	0.32	4.4	0.7	12.5
	120,000	0.46	6.4	0.98	n/a

The certification exhaust emission values for this engine family in grams per mile are:

<u>Test Weight</u> <u>(lbs.)</u>	<u>Miles</u>	<u>Non-Methane</u> <u>Hydrocarbons</u>	<u>Carbon</u> <u>Monoxide</u>	<u>Nitrogen</u> <u>Oxides</u>	<u>Carbon</u> <u>Monoxide (20°F)</u>
3751-5750	50,000	0.23	1.8	0.3	4.4
	120,000	0.34	2.2	0.36	n/a

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the 50,000-mile evaporative emission standards applicable to 1980 through 1994 model-year vehicles in the "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Motor Vehicles", and the listed vehicle models comply with those standards.

BE IT FURTHER RESOLVED: That, based on the evaporative emission phase-in compliance schedule submitted by the vehicle manufacturer, the listed vehicle models shall not be subject to the running loss and useful life standards set forth in the "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Motor Vehicles."

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's "Specifications for Fill Pipes and Openings of Motor Vehicle Fuel Tanks" for the aforementioned model year (Title 13, California Code of Regulations, Section 2235).

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high-altitude requirements and highway emission standards, and with the California Inspection and Maintenance emission standards in place at the time of certification, as stipulated in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles".

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "California Motor Vehicle Emission Control Label Specifications" for the aforementioned model year (Title 13, California Code of Regulations, Section 1965).

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "Malfunction and Diagnostic System Requirements--1994 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles and Engines" (Title 13, California Code of Regulations, Section 1968.1) for the aforementioned model year.

BE IT FURTHER RESOLVED: That for the listed vehicles, the manufacturer has submitted and the Executive Officer hereby approves the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2035 et seq.).

Vehicles certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachment.

Executed at El Monte, California this 9th day of August 1995.


R. B. Summerfield
Assistant Division Chief
Mobile Source Division

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET LIGHT DUTY TRUCKS AND MEDIUM DUTY VEHICLES

Example, Pattern A: CC10703+E62
Example, Pattern B: 1UM05

Digit 1 = Marketing Division

Pattern A
C = Chevrolet
T = GMC
H = Oldsmobile
G = Isuzu

Pattern B
1 = Chevrolet
2 = Pontiac
3 = Oldsmobile

Note: Digit 1 is not used for Pattern A models on engine family pages or California Supplemental Data Sheets.

Digit 2 = Chassis Type (all)

U = Conventional 4x2 Front Wheel Drive
C, S, M = Conventional 4x2 Rear Wheel Drive
G = Forward Control 4x2 Rear Wheel Drive
K, T, L = Conventional 4x4 Four Wheel Drive, All Wheel Drive

Digit 3 = Series/GVWR

Pattern A
1 = 11,15,1500/3500-7300
2 = 21,25,2500/6400-8600
3 = 31,35,3500/7100-14500

Pattern B
Letter code designates trim level rather than series/GVWR.

Digits 4 & 5

Pattern A = Dimensional Grouping
05 = Blazer, Jimmy, Bravada
06 = S/T Short Box
07 = C/K Short Box
08 = S/T Long Box & Cab-Chassis
09 = C/K Long Box, Suburban,
10 = M/L Long Body
14 = G Short Wheelbase
17 = G Long Wheelbase

Pattern B
05 = Cargo (APV)
06 = Passenger (Lumina APV, Trans Sport, Silhouette)

Digits 6 & 7 = Body/Cab Codes (Pattern A Only)

03 = Conventional Cab, Cab-Chassis
05 = Cargo Van
06 = Passenger Van, 4 Door Special Purpose Vehicle
16 = 2 Door Special Purpose Vehicle
43 = Crew Cab
53 = Extended Cab

Pickup Body Codes (Optional, Used with Pattern A Only)

+E62 = Stepside, Fenderside
+E63 = Fleetside, Wideside
+ZW9 = Cab-Chassis

ISSUED: ML-TP099

REVISED:

17-TGM5.0HPG1EK-1

1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MFR: GENERAL MOTORS CORP. ENGINE FAMILY: TGM5.0HPG1EK EVAP. FAMILY: TGM1098AYMBA
 ALL ENGINE CODES IN ENGINE FAMILY: CA X 49S X 50S AB965
 EXH STD: CA Tier-1 X TLEV LEV ULEV ZEV : U.S. EPA Tier-1 NA
 EVAP STD: 50K X USEFUL LIFE WITH R/L : IN-USE EXH STD: FULL ALTERNATIVE
 VEH CLASS(ES): PC LDT1 LDT2 MDV1 MDV2 X MDV3 MDV4 MDV5
 SINGLE CERT STD FOR MULTI-CLASS ENGINE FAMILY: NA
 FUEL TYPE(S): DEDICATED X GASOLINE X : EMISS TEST FUEL(S): INDO PHASE 2 X
 SERVICE ACCUM: STD AMA MFR ADP X : NMOG TEST PROC: NA EQUIV
 R/L TEST PROC: NA PT SOURCE : HYBRID TYPE: NA APU CYCLE: NA
 ENGINE CONFIGURATION: I4 V6 V8 X DISPLACEMENT: 5.0 LITERS/ 305 CU. IN.
 VALVES/CYLINDER: 2 X 4 RATED HP: 220 @ 4600 RPM
 ENGINE LOCATION: FRONT X DRIVE: FWD RWD X 4WD-FT 4WD-PT X
 EXHAUST EMISSION CONTROL SYSTEM: LEGR, TWC, 2HO2S-HO2S(2), SFI, OBD II
 RLHP/DPA VALUES: SECTION 08.13.02.00

ENG CODE (LOC) (C)	VEH MODELS (SEE PAGE 1)	TRANS. (M5, A4 ETC.)	EQUIV. TEST WEIGHT	IGNITION (ECM/PCM) PART NO./CALIB	EGR SYSTEM PART NO.	CATALYTIC CONVERTER PART NO.
51	C10703+E62	A4	5000	16177415/ 16187661-ENG	17096188. 17096309	25163811. 25163841
	C10703+E63		5250	16187778. 16187779-TRANS		
	C10903+E63			16187577PB-OPER		
	C10753+E62					
	C10753+E63		5500			
	C10953+E63		5250			
	K10703+E62					
	K10703+E63		5500			
	K10753+E62					
	K10753+E63					
	K10953+E63					
	C20903+E63					
	K10903+E63					
51A				16177415/ 16227413-ENG 16227572. 16227573-TRANS 16227245PF-OPER		

CARLINE NAME	CARLINE CODE
C1500 PICKUP 2WD	55015
C2500 PICKUP 2WD	55020
K1500 PICKUP 4WD	55030
C1500 SIERRA 2WD	80010
C2500 SIERRA 2WD	80015
K1500 SIERRA 4WD	80020

ISSUED: ML-TP099

REVISED: ML-TR053, ML-TR022, ML-TR073, ML-TR116

17-TGM5.0HPG1EK-2

1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MFR: GENERAL MOTORS CORP.ENGINE FAMILY: TGM5.0HPG1EKEVAP. FAMILY: TGM1098AYMBA

ENG CODE (LOC) (C)	VEH MODELS (SEE PAGE 1)	TRANS. (M5, A4 ETC.)	EQUIV. TEST WEIGHT	IGNITION (ECM/PCM) PART NO.	EGR SYSTEM PART NO.	CATALYTIC CONVERTER PART NO.
81	C10703+E62	A4	5000	16177415/ 16232348-ENG	17096188, 17096309	25163811, 25163841
	C10703+E63		5250	16227572, 16227573-TRANS		
	C10903+E63			16235505PH-OPER		
	C10753+E62					
	C10753+E63		5500			
	C10953+E63		5250			
	K10703+E62					
	K10703+E63		5500			
	K10753+E62					
	K10753+E63					
	K10953+E63					
	C20903+E63					
	K10903+E63					
81A				16237015PJ-OPER		
51B				16227527-ENG 16232915PG-OPER		
51C				16237015PJ-OPER		

CARLINE NAME	CARLINE CODE
C1500 PICKUP 2WD	55015
C2500 PICKUP 2WD	55020
K1500 PICKUP 4WD	55030
C1500 SIERRA 2WD	80010
C2500 SIERRA 2WD	80015
K1500 SIERRA 4WD	80020

ISSUED: ML-TR022

REVISED: ML-TR062, ML-TR073, ML-TR116

17-TGM5.0HPG1EK-2.1

1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MFR: GENERAL MOTORS CORP.ENGINE FAMILY: TGM5.0HPG1EKEVAP. FAMILY: TGM1098AYMBA

ENG CODE (LOC) (C)	VEH MODELS (SEE PAGE 1)	TRANS. (M5.A4 ETC.)	EQUIV. TEST WEIGHT	IGNITION (ECM/PCM) PART NO.	EGR SYSTEM PART NO.	CATALYTIC CONVERTER PART NO.
52	C10703+E62	A4	5250	16177415/ 16187661-ENG 16187778. 16187779-TRANS 16187577PB-OPER	17096188, 17096309	25163811. 25163841
	C10703+E63					
	C10903+E63					
	C10753+E62					
	C10753+E63					
	C10953+E63		5500			
	K10703+E62		5250			
	K10703+E63					
	K10753+E62		5500			
	K10753+E63					
	K10953+E63					
	C20903+E63		6000			
	K10903+E63		5500			
	K10753+E62		6000			
	K10753+E63					

52A

16177415/
16227413-ENG
16227572.
16227573-TRANS
16227245PF-OPER

CARLINE NAME	CARLINE CODE
C1500 PICKUP 2WD	55015
C2500 PICKUP 2WD	55020
K1500 PICKUP 4WD	55030
C1500 SIERRA 2WD	80010
C2500 SIERRA 2WD	80015
K1500 SIERRA 4WD	80020

ISSUED: ML-TR116

REVISED:

17-TGM5.0HPG1EK-2.2

1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MFR: GENERAL MOTORS CORP.ENGINE FAMILY: TGM5.0HPG1EKEVAP. FAMILY: TGM1098AYMBA

ENG CODE (LOC) (C)	VEH MODELS (SEE PAGE 1)	TRANS. (M5, A4 ETC.)	EQUIV. TEST WEIGHT	IGNITION (ECM/PCM) PART NO.	EGR SYSTEM PART NO.	CATALYTIC CONVERTER PART NO.
82	C10703+E62	A4	5250	16177415/ 16232348-ENG	17096188, 17096309	25163811, 25163841
	C10703+E63			16227572.		
	C10903+E63		5250	16227573-TRANS		
	C10753+E62			16235505PH-OPER		
	C10753+E63		5500			
	C10953+E63		5250			
	K10703+E62					
	K10703+E63		5500			
	K10753+E62					
	K10753+E63					
	K10953+E63		6000			
	C20903+E63		5500			
	K10903+E63		6000			
	K10753+E62					
	K10753+E63					
82A				16237015PJ-OPER		
52B				16227527-ENG 16232915PG-OPER		
52C				16237015PJ-OPER		

CARLINE NAME	CARLINE CODE
C1500 PICKUP 2WD	55015
C2500 PICKUP 2WD	55020
K1500 PICKUP 4WD	55030
C1500 SIERRA 2WD	80010
C2500 SIERRA 2WD	80015
K1500 SIERRA 4WD	80020

ISSUED: ML-TR116

REVISED:

17-TGM5.0HPG1EK-2.3

1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MFR: GENERAL MOTORS CORP. ENGINE FAMILY: TGM5.0HPG1EK EVAP. FAMILY: TGM1098AYMBB
 ALL ENGINE CODES IN ENGINE FAMILY: CA X 49S X 50S AB965
 EXH STD: CA Tier-1 X TLEV LEV ULEV ZEV : U.S. EPA Tier-1 NA
 EVAP STD: 50K X USEFUL LIFE WITH R/L ; IN-USE EXH STD: FULL ALTERNATIVE
 VEH CLASS(ES): PC LDT1 LDT2 MDV1 MDV2 X MDV3 MDV4 MDV5
 SINGLE CERT STD FOR MULTI-CLASS ENGINE FAMILY: NA
 FUEL TYPE(S): DEDICATED X GASOLINE X ; EMISS TEST FUEL(S): INDO PHASE 2 X
 SERVICE ACCUM: STD AMA MFR ADP X ; NMOG TEST PROC: NA EQUIV
 R/L TEST PROC: NA PT SOURCE ; HYBRID TYPE: NA APU CYCLE: NA
 ENGINE CONFIGURATION: I4 V6 V8 X DISPLACEMENT: 5.0 LITERS/ 305 CU. IN.
 VALVES/CYLINDER: 2 X 4 RATED HP: 200 @ 4400 RPM
 ENGINE LOCATION: FRONT X DRIVE: FWD RWD X 4WD-FT 4WD-PT
 EXHAUST EMISSION CONTROL SYSTEM: LEGR, TWC, 2HO2S-HO2S(2), SFI, OBD II
 RLHP/DPA VALUES: SECTION 08.13.02.00

ENG CODE (LOC) (C)	VEH MODELS (SEE PAGE 1)	TRANS. (M5,A4 ETC.)	EQUIV. TEST WEIGHT	IGNITION (ECM/PCM) PART NO./CALIB	EGR SYSTEM PART NO.	CATALYTIC CONVERTER PART NO.
53.53M, 54.54M	G11405	A4	5500	16177415/ 16187719-ENG 16187779-TRANS 16187577PB-OPER	17096188, 17096309	25163811
53A.53N, 54A.54N				16174415/ 16227416-ENG 16227573-TRANS 16227245PF-OPER		
83.83M, 84.84M				16177415/ 16232354-ENG 16227573-TRANS 16235505PH-OPER		
53B.53P, 54B.54P				16177415/ 16227545-ENG 16227573-TRANS 16232915PG-OPER		
53C.53Q, 54C.54Q				16237015PJ-OPER		

CARLINE NAME
 G1500/G2500 CHEVY VAN 2WD
 G1500/G2500 SAVANA 2WD CARGO

CARLINE CODE
 55050
 80040

ISSUED: ML-TP099

REVISED: ML-TR053, ML-TR022, ML-TR062, ML-TR073

17-TGM5.0HPG1EK-3

1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MFR: GENERAL MOTORS CORP. ENGINE FAMILY: TGM5.0HPG1EK EVAP. FAMILY: TGM1098AYMBB

ENG CODE (LOC)	VEH MODELS (SEE PAGE 1)	TRANS. (M5, A4 ETC.)	EQUIV. TEST WEIGHT	IGNITION (ECM/PCM) PART NO./CALIB	EGR SYSTEM PART NO.	CATALYTIC CONVERTER PART NO.
83A, 83N, 84A, 84N	G11405	A4	5500	16177415/ 16232354-ENG 16227573-TRANS 16237015PJ-OPER	17096188, 17096309	25163811

CARLINE NAME
G1500/G2500 CHEVY VAN 2WD
G1500/G2500 SAVANA 2WD CARGO

CARLINE CODE
55050
80040

ISSUED: ML-TR073

REVISED:

17-TGM5.0HPG1EK-3.1